

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 60

30690163.p NTDEEERESDGSEVTGSATVMSGHSSPSSFPDGVDDS FNVKIR KATSEAHSSKOEAFAEITRROKAEKNALDAIRRAK QSESAYSSEKLRKDTEIAVAKPERFITITKNEEVIMPELOSAMA
 18408768.p PLFSSGSSSSFGEPVGPSPLEVSDTILNTSNVEEKEREG DVARKVHRDKAMHDIGOSDRTVYGEAKWKWEEDASTTEALCKAK
 15238488.p EODDDDVVALN VLQFMDVAEKLEYVRR KVNEAKLMIDESRKEVKVNAERSRAEWAISLCLNSRIG
 AK102556.q FCNIIVNLQNAQSAFNSTEQPGSSVDMESLVLVYQEILDK NFKQVILEAERSRKDAFVELLKRDTESRVAGVITARAK
 24500004.q STVPVSENVEAVQRSAAAVVQSLQTEEDSPTPSGHGSEDAG DVSDAYDKFDKDAVIEAEANLRHEAYETRRRKVERDLADATRIAN
 AK109040.q
 AK069675.q FLKCYLRKAVQLLMGNYETALATVVEGLKCDPNNEVLDGLRCAACIKRANGG DERAEDLREILODHLNNDLCNKLUQKEMDEAVLKKKAEASDERIKR IESERLAR
 AK065488.q DSFWDSFRGRSFSS YRASSSTVTEEVLSLSSSGITP DFPNSALHHEQODAGSNANLFDKLEEAFAEAKYRKQAYDESRLRQTEBELLISYHOKAR
 AK073764.q TRAELLKKEVDGESSKRRKAEMLLIALQRVQSEKSYLQEVNQRKETERTLARQRLIDEKMRRHNTLYDELQDTKKQKLLEQHISEIKSAAKDYVQEITEYFIQESCEEAKFQKIKMDLLAMQRVK
 44640010.q FS DEDFLNEAKRKVEPTIAKANEVOLKEEDALKNRDDLSS
 67270013.p FS ENEIV TGDIIICYKIKLTQDLYKHYHSVAS FLQHICDQK EEEMKK
 AK069682.q FS AGETII TGDIIICFCIKILKPPDIKYPSPVAS FLQHVCFRKTYEEVRKV
 56530022.q ENISPIRPNSTVDVAPKGCSENSSHQSKGSSPLTDLDTVGD LSVPVSSSSSEEHQHFMVEANMQNEMFEQWQQRVN
 AK061135.q MEEIDKLQLKELQE
 32180001.q DILEQKE EIGKTTELERERKOLKPERHOEIERPHEELGQGTKEYCCEHHK
 15220138.p RSS MSELNSNEFPDSHSAESNAFSYISLG RSTYGGSSHSSMSEITD GEESLSGGNHTEQ MHDSEMFVFVPHDIDQNQNLIEEPRLELQFQNFNSMSRESPAHILLGPR
 15218594.p RIS TPSMSSEISQSETDNGSCDMVSTVS SYTVSDSSTTIGSISSTSTESPFLVGNVYBQ QNQNLIEEPRLELQFQNFNKDKDITTNQ -KE
 15239834.p TNGSLDFNVEFQKGQRNS TGRSSFSDESDVGSMMSMMGSIDLSAEN FDM VGGSSS- DEASQSTRDIEAEMRLELQFQNFNKDKDITTNQ -KE
 15239600.p INGSMDFNNGFNAAFQRNP TLQSSFSDESD -GGFGVMGMSVLDSSQNSMDF YHGASSSSEESIPOSTKDIEMRLELQFQNFNKDKDITTNQ -KE
 AK101023.q SKPVVL SSRAADDCGGGVGDGSYRSTRRS VSNESFVGDLDF-QGQSSRFSSMDFCDSDLQDMS
 AK068947.q ARSAPPKDFDDYIDFIAFPPRS VIRSSFSFDDV -FELSLRELQFQNFDSLELS LSAS -MIESLSSAKDVEEPRLELQFQNFNKDKDITTNQ -KE
 37690007.q DLSHL SMFSDADISFVYSSG RRSEHNPVEA RLGAASAEYESDHFSFETSRTP WGGDSFGNDH TSFSQSSSTSSFC5 -IGMDVVEEMRLELQFQNFNKDKDITTNQ -KE
 AK069654.q DYS MPESSDISFISSGPRRSLVLYPP RLSSGSDAHDHHSFEATRPPSMWQGDSFGSD -SQSSNNSFASS LPMDMEEPRLELQFQNFNKDKDITTNQ -KE
 15224129.p DLT VPEES -DISFSSGPRSIDRIFPSLYDNNDPSR TPIRSLNFSDMDYSSSLDQSNY GRSSVDMN SPTDFESRFFSSAQSIDDVEEPRLELQFQNFNKDKDITTNQ -KE
 30699374.p SP SSERDSDISFISSGPRSVERS -SFSLDFPE SARTSRMSTSSEQSIGSNRLGIKFSDDEFINLESS TSFSEESGRTS -SYSSQSLDDVEEPRLELQFQNFNKDKDITTNQ -KE
 15219360.p SA SQEESSDLIFISSGPRSVDRS -SFTYDLP E-SARTSRMSTSSEQSIGSHRLGIKFSDDEFINLESS SVSDESGRTSCSFSSQSLNDVEEPRLELQFQNFNKDKDITTNQ -KE
 30685668.p CGSRPSTASSGPRSTSTGRDISFVSSGPSTTTGSPSFYIDFID -SGLTFRRESTSSGHSM RLGIRFNDINIQHDFS FVSDQSGCRSCSCSPQNLIEEPRLELQFQNFNKDKDITTNQ -KE
 15225643.p DS DL5FVSSDRPSMDWPE DNRNYYATSSSSSEKOSIDLCSSYSAFS TSSQESGRSL -SLSMYS
 15238484.p DS DISFVSSGPRSVDPQMPSPSLYDDDVDPVR L-SVTSEYGENRLSFATTYSKQSIDLGSPYVANS STSFESGRQSFSLQQDDEEPRLELQFQNFNKDKDITTNQ -KE
 AK069368.q DLE AEIRKLKLELKQKNDMHWN KLPLIGDGRSENSNASVHEDEHLQFETTCST HSYSERPNAEPSSAQRK RKLKLKLETSSSDQCPERTIQEF
 15221649.p
 43250011.q QSSESQH QILFNSLQAKTTGIGEYKNH GLRSPPKFEEAHYADSNS EE - COSIDEVKLKELODILVMDYKACEDILVHAKKKVNM
 37600021.k KSSGSHG -RSLFGSLGRKTPGRDVNTDP DAIGRLKEIYVALLSI NIVSEHRSDRSPPETs RK -KKVIEIPEEPRLELQFQNFNKDKDITTNQ -KE
 15224775.p ASSATP E IFRRRGSDIPQLNYSDFDKTCTKQSNEV NIVSEHRSDRSPPETs DAIGRLKEIYVALLSI NIVSEHRSDRSPPETs RK -KKVIEIPEEPRLELQFQNFNKDKDITTNQ -KE
 22327904.p AQSSST DIVLVDEHCRSLLRHSTVSTS KIOMD-RPHLKTp DEDLQSPVDEEPRLELQFQNFNKDKDITTNQ -KE
 15241414.p DETKRS -SDAAEEASKRSPPETSRSVS -WNPQ FRDFDERKDAMSSMSSN FEYG KSGVRAEVEQLEKEVOTTLMSYKQACDEELVHKQ
 15234952.p DETRCMS -LDAEEARDVSSINRSTDTTSRWTPR RRDYEERKEAMSSSSN REYGNFGTRFSWSGMGVDTHSRASQQASNMD ALSEQSYTDNQVNLNFCEVRLRABEIRHVQEMYAVAQNFTFDAS
 15240280.p DQEERVSTGRGMEIVHSGIECKKNKDESFSASFFMGTAEYNSMSWTSK WRDHEDEMRSSSSNNIDLVNMDWG AVVBNYSWWSHTASHMSDGLLSVH3 ITDNQVNLNFCEVRLRABEIRHVQEMYAVAQNFTFDAS
 30697549.p GSLDVDE -SKLNNQKGFYRITSSSGIGYGGSD ISSWRSSQMEAAASSST RPSSVLIISDKAPMTSS YSDPTSSSQIHKDIEEPRLELQFQNFNKDKDITTNQ -KE
 AK099675.q EYLTEST -SASVGDNNNSNSPCASGQTP KPESELKGSNEVIRQES PLQELMISLEDMDVNSELEKLPLELPHIKGVCKLVQDBSINAS
 33520007.q DYLNGST -SIYPDKDRRVNSTGTESS LLQG -MLSNDKQH1STEPRKLRLIQGKHKLVQDSDDASRQASK
 AK065683.q DDTVLTS -SHSINSETRSSSSSGNSIYKSF NRDRSFNDSDQAS-VSD MATNLKHSHDQEYKLIEEPRLEVLRVKLRLQKLNELAQKSLDN

Detailed description: This figure displays a sequence alignment of protein variants across 80 positions. The alignment is represented by a grid where each row corresponds to a different protein variant and each column to a specific position. Colored boxes highlight specific mutations or conservation patterns. A prominent red box highlights a cluster of mutations between positions 680 and 720.

	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	10
30690163.p	EGGYGGSIVVCGSLRH-TVAVKMNP-NSSQCPVEYQEVDFVLISKMRHPNIIILIIJACP-E	GWSLVYFYLPGG-SLEDRLICKDN-SPLLWQNVRVIAEITICAALVFLHSNK-AHSLV	EVGDKLPANILLDSNDVS	KLIDFETCSLLPNGSKS	VRDVT	TAVVLDPEASSSC	ELTP													
18408768.p	EGKVGSVKCNLH-TVAVKMPS-YGSINHREEPFERVILSRVRPNLLVQDMACP-E	RSILLYYDING-SLEDCESENN-VPALE	ESHIRIASIICSAFLFLHSN-IPC	CTIHGNLKP	SKILLD-SNEVT	KINDYISOLIPDG-	LDRSD	HVDPMYVVS	SEML											
15238468.p	GGNINVYRGRIGH-TVAVKVIG-DSLSDEAFJAKVILLNEIRHPNLLVIAJCSQ-R	KCLLPEYMENG-NLNINPTSRKSR-RSKIDKWDTRIAHQC	VQSGFLFLHSVK-PK	TVHGRGP	TPKILLD-RNVP	KITGRL-														
AK102556.q	RG-IGCVKGEIIN-N-RCVYKHS-CIISSMQCQEDEVILSKVRPHLVILIIJACP-D	ALCICDYEVING-SLEDRLWSKGCG-IPOLFWKIPARIVABISSALFLHSCK-P	POMIVHGDKLKNILLD-ANHC	KIDDCISOLFMDA-	-XDADEPEYRSP	CPLTP														
24500004.q	DGCGPSVYRGRDLRS-MAVAVKMIGR-FVAVDFGCREVAVCRARHPNLLVQDMACP	PARAVVHFVPGG-SLEDRLAGAAP-ALFWHELCV	AGVHACSFALFLHS	TO-PRAT	TVGDVRPNILLG	EFC	SRAV	CDVWRH	LATE	EMTP										
AK109040.q	EGCGPSVYKGTLRN-TVAVAKLILHP-HSMQGQSFEDOEIEVLSRVRVHPNLVQDMACP	-EAFGLVYEFLK-KG-SLEDRLACANN	TPPLTVQHTRTMC	ASALFLHSNK-PHFIVHGDKLPANILLD-ANFVS	KLIDF	EICRLLIQTN	GA	AAAATT	TRLYR	TPK	TFAYMD	PEFL	ITNC	ELTP						
AK069675.q	EGGPGCVVKGLLRN-MDVAVKVIRP-DSLGCGQSFECGEVLSRVRVHPNLVQDMACP	-ESSALVYEFLK-NG-SLEDRLCSDE	RQTLT	WQARHABICSLALFLHSNK-P	FLV	NDVS	KLIDF	EISRLLQ	ST	TT	NN	PLRTMPV	TC	PYMD	PEFL	ITNC	ELTP			
AK065488.q	EGGPGCVRKGLRN-TVAVAKMRS-ONLQGQSOFQEDEVILSRVRPNLVQDMACP	-EASGLVYEFLK-NG-SLEDRLACESN	TS	PLTVQHTRTMC	ALBICSLALFLHSNK-P	PHAVI	HGDKLPANILLD-ANFVS	KLIDF	EISRLLNR	ST	VSI	FYDT	TPR	TFAYMD	PEFL	ITNC	ELTP			
AK073764.q	OGCGPSVYKGSILST-TVAVAKMST-DSLHQGQSFEDOEIEVLSRVRVHPNLVQDMACP	-EASALVYEFLK-NG-SLEDRLNCVDN	TPPLTVQHTRTMC	IQHIDBICSLALFLHSNK-P	PHPVV	HGDKLPANILLD-ANFVS	KLIDF	EISRLLNR	ST	LESSV	-TGSDAHYT	TSRM	TP	AYMD	PEFL	ITNC	ELTP			
44640010.q	TGRGMNVYKGSILST-TVAVAKMST-OGLQGQSFEDOEIEVLSRVRVHPNLVQDMACP	-EAFGLVYEFLK-KG-SLEDRLCKKN	TPPLTVQHTRTMC	IQHIDBICSLALFLHSNK-P	PHPVV	HGDKLPANILLD-ANFVS	KLIDF	EISRLLNR	ST	GNNTS	FIS	SYID	PEF	ATC	ITNC	ELTP				
67270013.q	DTEYGRYKATMIG-TVAVAKLSSLT-ESL-FQOEVFLVQCRHPNIIIFLVCNS	-KTSALVYEFLK-NG-SLEDRLWQNT	STPLWQNT	TOHIGEICCALLFLBSNNKN	PTAALIHDGDLRPNILLD-DDASVRS	CPPNIMRL	YMD	REFIT	TC	ELTT										
AK069682.q	DTEYGRYKATMIG-TVAVAKLSSLT-ESL-FQOEVFLVQCRHPNIIIFLVCNS	-EVSALVYEFLK-NG-SLEDRLHCTNN	SAPLWYNT	TOHIGEICCALLFLBSNNKN	STAALVHGDLRPNILLD-ANFVS	KLIDF	EISMSNLFLQLGT	-EPPNITARL	YMD	PEF	ITNC	ELTP								
56530022.q	EGGYGGSIVKGLLG-TVAVAKFNR-FGICKEDEEVILSRMHPNLVQDMACP	-EAKALVYEFLK-NG-SLEDRLBLOCKHQ	TDPLWQHTRTMC	ALBICSLALFLHSNK-P	KG	DNVGC	KLIDF	EISRLLN	NTT	ITP	-YHQTNO	NIK	TC	GYM	PEFL	ITNC	ELTP			
AK061135.q	EGGYGCPVKGLLG-TVAVAKFNR-HGRGCFEYKDEVVLSRMRHPNLVQDMACP	-EAKALVYEFLK-NG-SLEDRLBLOCKHQ	TDPLWQHTRTMC	ALBICSLALFLHSNK-P	KG	DNVGC	KLIDF	EISRLLN	NTT	ITP	-D	ICRRL	TK	TM	ITP	TYMD	PEFL	ITNC	ELTP	
32180001.q	GGGYGCPVKGLLG-TVAVAKFNR-ESSRGEREKFQEIILTRIRHONLILURJACS	-EXPALMYEFLNQ-TELDRFLINEQ	RESFWEE	SVRVAUTSICHALFLHNNAK	PNE	NDV	DKL	EISRLLN	NTT	ITP	-DENICKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	DKL	
15220138.p	EGGYGCPVKVAKLEN-TVAVAKLILKS-DVSQCLQPN-EI	EVLSRMRHPNMVILLJACP	EGYCLVYEFMNG	TLEDRLICKDNT	PPL	SWR	FR	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE	
15218594.p	EGGYGCPVKVAKLEN-TVAVAKLILKS-CITEVLSRMRHPNMVILLJACP	-EYGLVYEFMNG	TLEDRLICKDNT	PPL	SWR	FR	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15239834.p	EGGYGCPVKVHGTLL-TVAVAKVIRP-DAAQGKKQFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRLFRRGNS	PPL	SWR	FR	QIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15239600.p	EGGYGCPVNGLDCH-TVAVAKVIRP-DAAQGKKQFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRLFRTGNS	PPL	SWR	FR	QIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
AK101023.p	EGGYGCPVYRASLCH-TVAVAKVIRP-DAQGKRFQFQEDEVILSIRHPHMVILLJACP	-DYGGLVYEFMNG	SLEDRLFRRGGT	PPL	SWR	FR	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
AK068947.q	EGGYGCPVYKAVMCH-TVAVAKVIRP-DASCCRQFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRLFRRGGT	PPL	SWR	FR	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
37690007.q	EGGYGCPVYKGLLCH-TVAVAKVIRP-DAAQGRSOFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
AK069654.q	EGGYGCPVYKGLLCH-TVAVAKVIRP-DAAQGRSOFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15224129.p	EGGYGCPVYKCYLCH-TVAVAKVIRP-DAAQGRSOFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
30699374.p	EGGYGCPVFRGLCH-TVAVAKVIRP-DAAQGRSOFKEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15219360.p	EGGYGCPVFRGLCH-TVAVAKVIRP-DAAQGRSOFKEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
30685668.p	EGGYGCPVYKCYLCH-TVAVAKVIRP-DATQGRSOFQEDEVILSIRHPHMVILLJACA	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15225643.p	EGGSYTVKCYLCH-TVAVAKVIRP-DATQGRSOFQEDEVILSIRHPHMVILLJACA	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15238484.p	EGGYGCPVYKGLLCH-TVAVAKVIRP-DAAQGRSOFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
AK069368.q	EGGYGCPVYKGLLCH-TVAVAKVIRP-DAAQGRSOFQEDEVILSIRHPHMVILLJACP	-EYGLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE		
15221649.p	KGCGPGRVYGTLLKGEWAALKR-DLPTFKKADSEREPRV	EVDFVLISRHPNLVQDMACP	NLQDHN	AKI	WQHTRTMC	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE			
43250011.q	EGGYGCPVYRCITLCH-TVAVAKVIRP-DSIKKTDEFRE	EVDFVLISRHPNLVQDMACP	EG	ICL	WQHTRTMC	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE			
37600021.q	EGGYGCPVYRCITLCH-TVAVAKVIRP-QSSDKIDEFRE	EVDFVLISRHPNLVQDMACP	EG	QOSL	WQHTRTMC	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE			
15224775.p	EGGYGCPVYCSLDS-TVAVAKVIRP-DIPEKKOFEFKE	EVDFVLISRHPNLVQDMACP	ENGC	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
22327904.p	EGGYGCPVYCSLDS-TVAVAKVIRP-DIPEKKOFEFKE	EVDFVLISRHPNLVQDMACP	ENGC	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
15241414.p	MCAAGDVYKCNLH-TVAVKVIRP-AE	SSLSKOFQEEBILSKIRHPHLVLLJACP	DIGA	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
15234952.p	MCAAGDVYKCNLH-TVAVKVIRP-AE	SSLSKOFQEEBILSKIRHPHLVLLJACP	DIGA	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
15240280.p	IGANGSVYKCNLH-TVAVKVIRP-AE	SSLSKOFQEEBILSKIRHPHLVLLJACP	DIGA	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
30697549.p	VGGYGSVYRCNLH-TVAVKVIRP-DKSSLT	PKOFQEEBILSKIRHPHLVLLJACP	EGRS	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
AK099675.q	SGCSNTVYKCNLH-TVAVKVIRP-DSPIRIKHFKOEEBIL	EVDFVLISRHPNLVQDMACP	DRPC	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
33520007.q	SGANGTVYKCNLH-SVAVKVIRP-PDNSSNKH	FROELEVLSKIRHPHLVLLJACP	ERGC	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE
AK065683.p	RGSGYGTYKAKFCH-TVAVKVIRP-PEGC	CTQOEEBILSKIRHPHLVLLJACP	SLDDM	GLVYEFMNG	SLEDRCLE	FR	GGGGGGGGGG	QVFLWQH	PIAIA	GLLFLHO	PE	PLV	HRD	DLK	PANILLD	RHFTS	KLIDF	DV	GLLFL	PE

